NC/QC/W-1/2019-20/WS-W1

Date: 06-08-2019

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Providing Borewell water pipe lines Water Supply works at ward no.1.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Old Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	98.30	95-100
26.50	---	-
22.40	64.95	60-80
11.20	49.05	40-60
4.75	37.50	25-40
2.36	19.25	15-30
0.600	20.05	8-22
0.075	3.70	0-5

A.E.E

AE

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187

Date: 06-08-2019

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	26.81%	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.66%	Not more than 35.0 %
3.	Water absorption, %	0.39 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

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NC/QC/W-1/2019-20/BA-C1 Date: 08-08-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing Borewell water pipe lines Water Supply works at ward no.1.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Old Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	171 min	Shall not be less than 30 min
2	Final setting time	258 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.83 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.07 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	29.39 N/Sq mm	Shall not be less than 27 N/Sqmm

A.E.E

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NC/QC/W-1/2019-20/BA-C2

Date: 10-08-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing Borewell water pipe lines Water Supply works at ward no.1.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Old Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	168 min	Shall not be less than 30 min
2	Final setting time	271 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.94 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.88 mm	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	29.17 N/Sq mm	Shall not be less than 27 N/Sqmm

A.E.E

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NC/QC/W-1/2019-20/BA-PCC2

Date: 10-08-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Providing Borewell water pipe lines Water Supply works at ward no.1.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Old Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	100.00	100.00
20mm	97.40	85-100	95 - 100
10mm	29.10	0 - 20	25 - 55
4.75mm	8.55	0 - 5	0 - 10

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.30	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	82.75	60-95	75-100	85-100	
01.18	66.15	30-70	55-90	75-100	
600 mic	43.95	15-34	35-59	60-79	
300 mic	24.50	5-20	8-30	12-40	
150 mic	7.10	0-10	0-10	0-10	

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For Newzen Consultants Bangalore
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WZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/W-1/2019-20/IG3-CB2 Date: 21-08-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing Borewell water pipe lines Water Supply works at ward no.1.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Old Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	14-08-19	21-08-19	07	22500	305	13.56	**13.11**
	002	"	"	"	"	280	12.44	
	003	"	"	"	"	300	13.33	

A.E.E

For Newzen Consultants Bangalore

Proprietor

WZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/W-1/2019-20/IG3-CB1a

Date: 10-09-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing Borewell water pipe lines Water Supply works at ward no.1.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Old Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
	001	13-08-19	10-09-19	28	22500	415	18.44	
	002	"	"	"	"	410	18.22	**18.15**
	003	"	"	"	"	400	17.78	

AE-1 A.E.E

For Newzen Consultants Bangalore

Proprietor

NC/QC/W-1/2019-20/IG3-CB2a

Date: 11-09-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing Borewell water pipe lines Water Supply works at ward no.1.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Old Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	14-08-19	11-09-19	28	22500	405	18.00	17.48
	002	"	"	"	"	390	17.33	
	003	"	"	"	"	385	17.11	

A.E.E

For Newzen Consultants Bangalore

Proprietor

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